

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/563,832  
Source: I/EWP  
Date Processed by STIC: 1-18-06

***ENTERED***



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/563,832

DATE: 01/18/2006

TIME: 15:23:58

Input Set : A:\sequence listing.txt  
 Output Set: N:\CRF4\01182006\J563832.raw

3 <110> APPLICANT: OHIO UNIVERSITY  
 4 KOPCHICK, John J.  
 5 RIDERS, Markus  
 6 COSCHIGANO, Karen T.  
 7 GOSNEY, Elahu S.  
 9 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT METHODS RELATED TO AGING (AG)  
 11 <130> FILE REFERENCE: KOPCHICK8APCT  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/563,832  
 C--> 14 <141> CURRENT FILING DATE: 2006-01-09  
 16 <150> PRIOR APPLICATION NUMBER: 60/485,422  
 17 <151> PRIOR FILING DATE: 2003-07-08  
 19 <160> NUMBER OF SEQ ID NOS: 27  
 21 <170> SOFTWARE: PatentIn version 3.3  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 263  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Mus sp.  
 28 <400> SEQUENCE: 1  
 29 tatggcaaag atttggtgg aaggccaaag acctcagaga ttcagagcca ggtcaaggca 60  
 31 cacttgaga agacacacga gcagctgaca ccccttgtca ggtcagcagg aactagtctg 120  
 33 gtgaacttct tcagcagttt aatgaacctc gaggagaaac cggctcctgc ggctaaatgt 180  
 35 gatgtgccag gcccagtctt cccacccag ctgctccact ggccaccgct agagccccctc 240  
 37 tccctacctt ctgcctgttt tct 263  
 40 <210> SEQ ID NO: 2  
 41 <211> LENGTH: 865  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Mus sp.  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: misc\_feature  
 48 <222> LOCATION: (172)..(173)  
 49 <223> OTHER INFORMATION: n is unknown.  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: misc\_feature  
 53 <222> LOCATION: (320)..(320)  
 54 <223> OTHER INFORMATION: n is unknown.  
 56 <400> SEQUENCE: 2  
 57 acgcgggaa ttccaaattct ccaggcatac gcgtataaca actcggataa ccattgttag 60  
 59 ttaatcagac tataggcaat aatcacacta taaataatcc acctataact tctctgttaa 120  
 W--> 61 cccaacacccg gaatgcctaa agaaaaagatc caaaaagata aagggaaactc gnnaaacaag 180  
 63 aaccccgct gtttacccaa aacatcacct ctagcattac aagtattaga ggcactgcct 240  
 65 gcccagtgac taaagttta cggccgcggg atcctgaccg tgcaaaggtt gcataatcac 300  
 67 ttgttcctta attagggacn agcagaacgg ctaaacgagg gtccaaactgt ctctttatct 360  
 69 ttaatcagtg aaattgacct ttcagtgaag aggctgaaat ataataataa gacgagaaga 420

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71	ccctatggag cttaaattat ataacttac tatttaattt attaaaccta atggcccaaa	480
73	aactataga taagttgaa atttcgggtt gggcaccc ggagaataaa aaatccctcg	540
75	aatgattata acctagactt acaagtcaaa gtaaaatcaa catatcttac tgacccagat	600
77	atattttgat caacggacca agttacccta gggataacag cgcaatccctt ttaagagtt	660
79	catacgcaca attagggtt acgacccctga tgttggatca gacatccca atgggtttaga	720
81	agctattaat gttcggttgc ttcaacgatt aaagtccctac gtgatcttag ttcagaccgg	780
83	agcaatccag gtcgggttct atctatttac gatttctccc agtacccctgg ccgcgaccac	840
85	gctaaggcg aattccagca cactg	865
88	<210> SEQ ID NO: 3	
89	<211> LENGTH: 387	
90	<212> TYPE: DNA	
91	<213> ORGANISM: Mus sp.	
93	<400> SEQUENCE: 3	
94	acgcgggggt ggaaaggcga ccatgcttct ctgctctgac agttgatgaa acatatgtcc	60
96	ccaaagagtt taaagctgag accttcaccc tccactctga tatctgcaca cttccagaga	120
98	aggagaaaaca gattaagaaa caaacggctc ttgctgagct ggtgaagcac aagcccaagg	180
100	ctacagcggg gcaactgaag actgtcatgg atgactttgc acagttccctg gatacatgtt	240
102	gcaaggctgc tgacaaggac acctgcttct cgactgaggg tccaaacctt gtcaactagat	300
104	gcaaagacgc cttagctaa acacatcaca accacaacct ttcaggctt ccctgagaaa	360
106	aaaagacatg aagactcagg actcatc	387
109	<210> SEQ ID NO: 4	
110	<211> LENGTH: 711	
111	<212> TYPE: DNA	
112	<213> ORGANISM: Mus sp.	
115	<220> FEATURE:	
116	<221> NAME/KEY: misc_feature	
117	<222> LOCATION: (523)..(523)	
118	<223> OTHER INFORMATION: n is unknown.	
120	<220> FEATURE:	
121	<221> NAME/KEY: misc_feature	
122	<222> LOCATION: (543)..(543)	
123	<223> OTHER INFORMATION: n is unknown.	
125	<220> FEATURE:	
126	<221> NAME/KEY: misc_feature	
127	<222> LOCATION: (579)..(579)	
128	<223> OTHER INFORMATION: n is unknown.	
130	<220> FEATURE:	
131	<221> NAME/KEY: misc_feature	
132	<222> LOCATION: (587)..(587)	
133	<223> OTHER INFORMATION: n is unknown.	
135	<220> FEATURE:	
136	<221> NAME/KEY: misc_feature	
137	<222> LOCATION: (612)..(612)	
138	<223> OTHER INFORMATION: n is unknown.	
140	<220> FEATURE:	
141	<221> NAME/KEY: misc_feature	
142	<222> LOCATION: (615)..(615)	
143	<223> OTHER INFORMATION: n is unknown.	
145	<220> FEATURE:	

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PATENT APPLICATION: US/10/563,832

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Input Set : A:\sequence listing.txt  
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146 <221> NAME/KEY: misc_feature
147 <222> LOCATION: (625)..(625)
148 <223> OTHER INFORMATION: n is unknown.
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (639)..(639)
153 <223> OTHER INFORMATION: n is unknown.
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (647)..(647)
158 <223> OTHER INFORMATION: n is unknown.
160 <220> FEATURE:
161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (657)..(658)
163 <223> OTHER INFORMATION: n is unknown.
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (663)..(663)
168 <223> OTHER INFORMATION: n is unknown.
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (675)..(675)
173 <223> OTHER INFORMATION: n is unknown.
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (677)..(677)
178 <223> OTHER INFORMATION: n is unknown.
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (682)..(682)
183 <223> OTHER INFORMATION: n is unknown.
185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (684)..(684)
188 <223> OTHER INFORMATION: n is unknown.
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (692)..(692)
193 <223> OTHER INFORMATION: n is unknown.
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (697)..(697)
198 <223> OTHER INFORMATION: n is unknown.
200 <400> SEQUENCE: 4
201 acgcggggca atcgttcacc tccttcttcc ccacgaaaca ggatcaaaca acccaacagg 60
203 attaaactca gatgcagata aaattccatt tcaccccccac tatacaatca aagatatcct 120
205 aggtatccta atcatattct taattctcat aaccctagta ttattttcc cagacatact 180
207 aggagaccca gacaactaca taccagctaa tccactaaac accccacccc atattaaacc 240
209 cgaatgatat ttccatatttgcatacgccat tctacgctca atccccaaata aactaggagg 300

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211	tgtcctagcc ttaatcttat ctatccta atttagcccta ataccttcc ttcataccctc	360
213	aaagcaacga agcctaataat tccgcccata cacacaatt ttgtacctcg gcccgcacca	420
215	cgctaaggc gaattctgca gatatccatc acactggcgg ccgctcgagc atgcatactag	480
W--> 217	agggcccaat tcgcccata gtgagtcgta ttacaattca ctngccgtc gtttacaacg	540
219	tcntgactgg gaaaaccctt ggcgttacca aattaatcng cctttgnaaa catccccctt	600
221	tcgcccagctg gncgnaatag cgaanaaggc ccccaccnna cggccctncca acagttnncc	660
223	canctataacc gtacnngnattt nanggtta cncctanaaa aaaaagagcc g	711
226	<210> SEQ ID NO: 5	
227	<211> LENGTH: 850	
228	<212> TYPE: DNA	
229	<213> ORGANISM: Mus sp.	
232	<220> FEATURE:	
233	<221> NAME/KEY: misc_feature	
234	<222> LOCATION: (39)..(39)	
235	<223> OTHER INFORMATION: n is unknown.	
237	<220> FEATURE:	
238	<221> NAME/KEY: misc_feature	
239	<222> LOCATION: (216)..(216)	
240	<223> OTHER INFORMATION: n is unknown.	
242	<220> FEATURE:	
243	<221> NAME/KEY: misc_feature	
244	<222> LOCATION: (218)..(218)	
245	<223> OTHER INFORMATION: n is unknown.	
247	<220> FEATURE:	
248	<221> NAME/KEY: misc_feature	
249	<222> LOCATION: (572)..(572)	
250	<223> OTHER INFORMATION: n is unknown.	
252	<220> FEATURE:	
253	<221> NAME/KEY: misc_feature	
254	<222> LOCATION: (590)..(590)	
255	<223> OTHER INFORMATION: n is unknown.	
257	<220> FEATURE:	
258	<221> NAME/KEY: misc_feature	
259	<222> LOCATION: (594)..(594)	
260	<223> OTHER INFORMATION: n is unknown.	
262	<220> FEATURE:	
263	<221> NAME/KEY: misc_feature	
264	<222> LOCATION: (600)..(600)	
265	<223> OTHER INFORMATION: n is unknown.	
267	<220> FEATURE:	
268	<221> NAME/KEY: misc_feature	
269	<222> LOCATION: (605)..(605)	
270	<223> OTHER INFORMATION: n is unknown.	
272	<220> FEATURE:	
273	<221> NAME/KEY: misc_feature	
274	<222> LOCATION: (681)..(681)	
275	<223> OTHER INFORMATION: n is unknown.	
277	<220> FEATURE:	
278	<221> NAME/KEY: misc_feature	

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DATE: 01/18/2006

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Input Set : A:\sequence listing.txt  
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279 <222> LOCATION: (693)..(693)  
280 <223> OTHER INFORMATION: n is unknown.  
282 <220> FEATURE:  
283 <221> NAME/KEY: misc\_feature  
284 <222> LOCATION: (711)..(711)  
285 <223> OTHER INFORMATION: n is unknown.  
287 <220> FEATURE:  
288 <221> NAME/KEY: misc\_feature  
289 <222> LOCATION: (727)..(727)  
290 <223> OTHER INFORMATION: n is unknown.  
292 <220> FEATURE:  
293 <221> NAME/KEY: misc\_feature  
294 <222> LOCATION: (730)..(730)  
295 <223> OTHER INFORMATION: n is unknown.  
297 <220> FEATURE:  
298 <221> NAME/KEY: misc\_feature  
299 <222> LOCATION: (741)..(741)  
300 <223> OTHER INFORMATION: n is unknown.  
302 <220> FEATURE:  
303 <221> NAME/KEY: misc\_feature  
304 <222> LOCATION: (748)..(748)  
305 <223> OTHER INFORMATION: n is unknown.  
307 <220> FEATURE:  
308 <221> NAME/KEY: misc\_feature  
309 <222> LOCATION: (764)..(764)  
310 <223> OTHER INFORMATION: n is unknown.  
312 <220> FEATURE:  
313 <221> NAME/KEY: misc\_feature  
314 <222> LOCATION: (768)..(768)  
315 <223> OTHER INFORMATION: n is unknown.  
317 <220> FEATURE:  
318 <221> NAME/KEY: misc\_feature  
319 <222> LOCATION: (772)..(772)  
320 <223> OTHER INFORMATION: n is unknown.  
322 <220> FEATURE:  
323 <221> NAME/KEY: misc\_feature  
324 <222> LOCATION: (774)..(774)  
325 <223> OTHER INFORMATION: n is unknown.  
327 <220> FEATURE:  
328 <221> NAME/KEY: misc\_feature  
329 <222> LOCATION: (780)..(780)  
330 <223> OTHER INFORMATION: n is unknown.  
332 <220> FEATURE:  
333 <221> NAME/KEY: misc\_feature  
334 <222> LOCATION: (784)..(784)  
335 <223> OTHER INFORMATION: n is unknown.  
337 <220> FEATURE:  
338 <221> NAME/KEY: misc\_feature  
339 <222> LOCATION: (786)..(786)

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/18/2006  
PATENT APPLICATION: US/10/563.832 TIME: 15:23:59

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\01182006\J563832.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 172, 173, 320  
Seq#:4; N Pos. 523, 543, 579, 587, 612, 615, 625, 639, 647, 657, 658, 663, 675, 677, 682  
Seq#:4; N Pos. 684, 692, 697  
Seq#:5; N Pos. 39, 216, 248, 512, 590, 594, 600, 605, 684, 693, 711, 727, 730, 741, 748  
Seq#:5; N Pos. 764, 768, 772, 774, 780, 784, 786, 788, 793, 798, 799, 812, 829, 833, 841  
Seq#:5; N Pos. 844, 845  
Seq#:6; N Pos. 839  
Seq#:11; N Pos. 13, 14, 15, 24, 33, 52, 87, 89, 104, 112, 114, 138, 144, 154, 169, 196, 198  
Seq#:11; N Pos. 201, 204, 273, 289, 296, 298, 300

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/563,832

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Input Set : A:\sequence listing.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120  
M:341 Repeated in SeqNo=2  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:480  
M:341 Repeated in SeqNo=4  
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
M:341 Repeated in SeqNo=5  
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:780  
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
M:341 Repeated in SeqNo=11